Filter过滤器
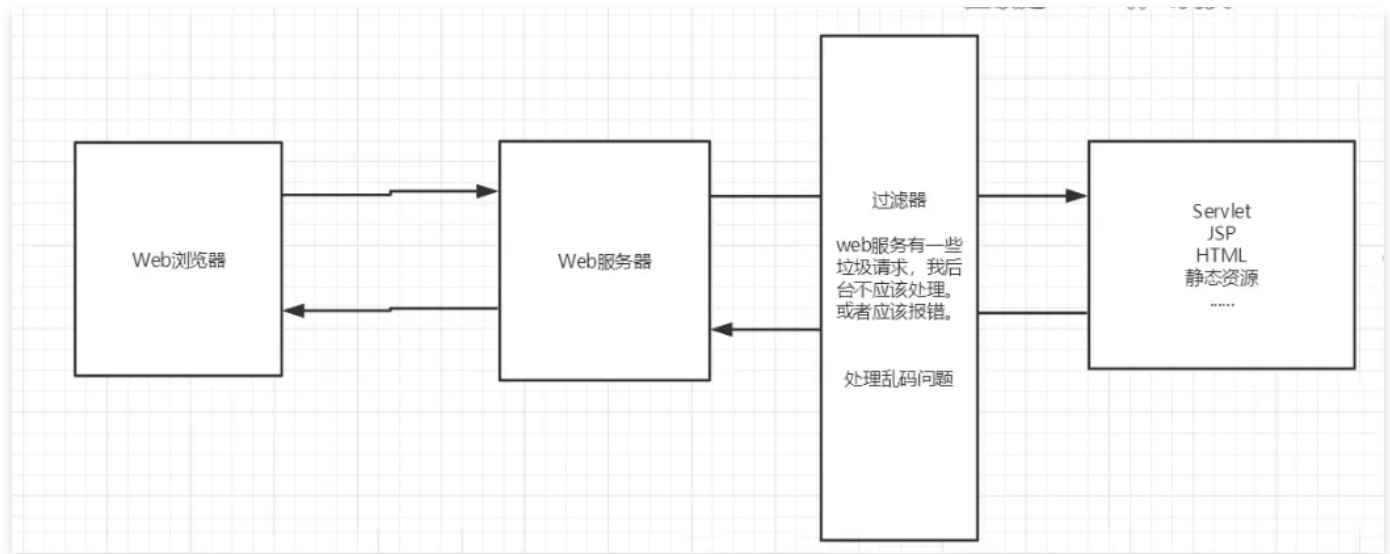
Filter：过滤器，用来过滤网站数据

- 处理中文乱码

- 登录验证。。。。

Filer开发步骤

- 导包

- 编写过滤器

  a. 导包不要错 `import javax.servlet.*;`

  b. 实现Filter接口，重写对应的方法即可

```java
package com.kuang.filter;

import javax.servlet.*;
import java.io.IOException;

public class CharacterEncodingFilter implements Filter {
    //初始化：web服务器启动，就以及初始化了，随时等待过滤对象出现！
    public void init(FilterConfig filterConfig) throws ServletException {
        System.out.println("CharacterEncodingFilter初始化");
    }
    //    过滤中的所有代码，在过滤特定请求的时候都会执行
    //    必须要让过滤器继续同行  filterChain.doFilter(servletRequest,servletResponse);
    public void doFilter(ServletRequest servletRequest, ServletResponse servletResponse, FilterChain filterChain) throws IOException, ServletException {
        servletRequest.setCharacterEncoding("utf-8");
        servletResponse.setCharacterEncoding("utf-8");
        servletResponse.setContentType("text/html;charset=UTF-8");

        System.out.println("CharacterEncodingFilter执行前。。。。");
        filterChain.doFilter(servletRequest,servletResponse);//让我们的请求继续走，如果不写，程序到这里就被拦截停止！
        System.out.println("CharacterEncodingFilter执行后。。。。");
    }
    //销毁
    public void destroy() {
        System.out.println("CharacterEncodingFilter销毁");
    }
}
```

c. 在web.xml中配置Fliter

```java
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
                    http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd"
         version="4.0"
         metadata-complete="true">

   <servlet>
     <servlet-name>ShowServlet</servlet-name>
     <servlet-class>com.kuang.servlet.ShowServlet</servlet-class>
   </servlet>
   <servlet-mapping>
     <servlet-name>ShowServlet</servlet-name>
     <url-pattern>/servlet/show</url-pattern>
   </servlet-mapping>
   <servlet-mapping>
     <servlet-name>ShowServlet</servlet-name>
     <url-pattern>/show</url-pattern>
   </servlet-mapping>

   <filter>
     <filter-name>CharacterEncodingFilter</filter-name>
     <filter-class>com.kuang.filter.CharacterEncodingFilter</filter-class>
   </filter>
   <filter-mapping>
     <filter-name>CharacterEncodingFilter</filter-name>
<!--     只要/servlet的任何请求，会经过这个过滤器-->
     <url-pattern>/servlet/*</url-pattern>
   </filter-mapping>



</web-app>
```